

## THE BUILDER.

**IMPORTANT TO FAMILIES FURNISHING,**  
 A wide variety of fittings with Economy. JAMES COOK'S three  
 golden French-published Mahogany Arabian Bedstead, Bedding,  
 Chests, Carps, Looking-glass, and Upholstery Warehouses. Est-  
 mado given, and a list of prices sent post-free.  
**BROMPTON HOUSE, 38 and 40 QUEEN'S BUILDINGS,**  
**KINGSTON-UPON-THAMES.**

**WHITE, or OXIDE of ZINC.**—  
LANGSTON, SCOTT and WHITE.  
Paintmen and color Manufacturers in the United Kingdom, and  
now furnish SHIPPERS and the TRADE with a large assortment  
of every variety of WHITE ZINC, for painting, enamelling, paper staining,  
glass, gutta serena, &c. &c. &c. of uniform quality and  
most excellent covering body.  
Wholesale customers made, and sample books of not less than  
1 to 1000 forwarded (warranted pure) from their works,  
Grand Surrey Canal Dock, Bathurst's, London.

**DAMP WALLS.—NEW PATENT PAINT,** as used at the POWER, by order of HER MAJESTY'S HONOURABLE BOARD OF ORDNANCE; at the TUNNETT BOTANICAL GARDENS, Regent's park, and various other public and private buildings; in quantities to suit twenty square feet.

**PATENT LIQUID CEMENT** for the fronts of houses, for dressing pavement, giving the appearance of fine cut stone, and also for mending the roof of Oil Paint. In cans of 1, 2, and 3 pints, and in the largest quantity.

**PATENT MINERAL KILN PAINT,** irrefragable for cheapness, and permanence, ready for use. White Stone and Black, in German and Russian per gallon.

**BLACK MINERAL PAINT,** very permanent, half the usual

**NEW PATENT COLOUR** for inside work, may be applied on Wood, Masonry, Cement, or over Oil Paint. No smell, and will dry in an hour. In casks of 1 cwt. at 1s-  
**G. B. Hill, and Co. Steam Mills, 2, Wellington-street, Goswell-street.**

**HUBBUCK'S PATENT WHITE ZINC PAINT.**—THE PERMANENT WHITE of the American, by its constant use, is restricted to the use of the artist, is now found at the price of the ordinary white lead. Four years since the proprietors placed their manufacture on a large scale, and put this elegant Paint in competition with White Lead. It is confessed superiorly over every other paint hitherto known brought forward, various imitations.

These inferior productions, frequently made from zinc ore, containing lead, arsenic, and other deleterious material, alike injurious to health, deterring in body, and reducing the preservation properties for which the original paint stands pre-eminent.

In justice to the proprietors there should not be confounded with the original, even though sold under the pretence that it is all the same.

Hesse's paint is entirely free from any injurious properties whatever; it is healthful in the manufacture, healthful in use, and healthful to occupants of rooms newly painted with it. As a guard to the painter against the substitution of the inferior paints, each can is stamped

and if the mark has not been so marked, the reason is obvious.  
The powdered White Zinc also may be had for grinding to oil;  
also for use for porcelain, marls, for japanners, for gutta serena, and  
for plaster decorations, and the other purposes where it is used.

A circular with full particulars may be had of THOMAS HUBBECK and SON, Colour Manufacturers, opposite the London Dock.

**PURE PATENT WHITE ZINC PAINT, from**  
**THE VILLELL MONTAGNE ZINC MINING COMPANY**  
**OF BELGIUM**—This PAINT is superior in every respect to white  
 lead; it is unequalled in whiteness, and grows very hard after it is  
 applied, and is therefore, for interior work, susceptible of a high  
 polish. Besides, it is entirely free from all poisonous influences, is  
 unaffected by sea-water, sulphuretted hydrogen, or any gases, and  
 preserves its original colour, which white lead does not do.

**PURE PATENT WHITE ZINC PAINT, (GROSS WEIGHT OF THE TUBES INVARIABLELY**

[illegible]

The VILLIERS MONTAGNE ZINC COMPANY, who supply from its works in Belgium WHITE OXIDE OF ZINC in a dry powder, and the oxide bearing their mark. V.M. can only be obtained as genuine, and may be obtained, for grinding in oil, at the price of their Agents, residing in the following towns, viz: London, Liverpool, Birmingham, Hull, Newcastle, Leith, Glasgow, Bristol, Plymouth, Norwich, Ipswich, Dublin, Cork, Belfast, and Jersey. The emulsion, ground "pure" i.e. White Zinc Paint may be

also obtained from the Company Agents of the above-mentioned localities as likewise from their Grading Agents, Messrs. C. DEVAUX and Co. 40, King William-street, City, London; and Messrs. HUBB, ANDERSON and Co. Timber Bush, Leath, Kent, and Paris White Zinc Pigment may likewise be purchased from Messrs. BLENDLE, SPENCE and Co. Hull.

For further particulars apply to Mr. A. F. SCHMIDT, General Agent for the United Kingdom, at the Company's office, 13, Manchester-bldings, Westminster-bridge, London.

THE WASHINGTON CHEMICAL COMPANY.  
NEWCASTLE-ON-TYNE;  
Manufacturers of

**PATTINSON'S OXICHLORIDE OF LEAD.**—The Washington Chemical Company having, during the last year, established a Manufactory of Pattinson's Oxichloride of Lead on a large scale, and being able to supply it with regularity, and at a low price, without delay, now propose to bring this valuable preparation to lead before their friends and the public, quite sure that it will and, in the present war, be recommended because it is new, and that if judged by its merits, it must make its way, and finally take its place as one of the important manufactures of this country.

[illegible]

But the outlay will be far the most important advantage is however its remarkable and very desired superiority of Body; it is a material which is not only more durable than any other, but is also understood among Pastors. The attention of the discoverer was at this early period drawn to this circumstance, and since that time the "Savannah Clay Company" has been substantially engaged in the improvement of this important material toward all kinds. They have themselves performed a number of experiments, and have also caused a number of experiments to be made by others, and have thus ascertained that the material is certainly superior in covering power as compared with the same White Lead, and they now state the proportions to be as 90 to 100 of the best White Lead, the saving of most being in the same proportion, - besides this, the coating is thicker and more protective, and the material is more easily applied, and dries into a hard, elastic layer, more like an enamel than paint.

In using the Oxidation, no difference in the material with which it is mixed is required. Oil and Turpentine being employed as solvents both for work technically called Plating, and for work intended to be varnished. For the use of Paper Hangers and Leather Drummers, the Oxidation is found to be peculiarly suitable. The American Oxidation Company already mentioned this is a newly-developed and patented process, and is the only one in vogue of the country, and its intrinsic good qualities as a paint.

**OFFICE IN LONDON.—MR. R. COOKE, No. 7, Wimpole Street.**  
Office of the Washington Chemical Company,  
74, Grosvenor, Boulevard des Capucines, January 1, 1888.

GLOOMY and DARK ROOMS  
ILLUMINED BY THE LIGHT OF DAY

PATENT COMBINATION REFLECTORS;  
AND  
WINDOWS SECURED AGAINST FIRE AND BURGLARY.

A Description, post-free, on application to

J. BOYD & SON, SOLE MANUFACTURERS, 78, WELBECK-STREET, CAVENDISH-SQ.

THE FARNLEY IRON COMPANY, WORTLEY, near LEEDS



Manufacturers of FIRE BRICKS, TILES, QUARRIES, &c., White Building Bricks, Fire-clay CHIMNEY-TOPS, in Norman, Egyptian, Saxon, Tudor, Grecian, Gothic, and Elizabethan styles.

**TERZA OTTA**  
Fontaine, Vase, Pedestal, Capital, Truss, Bracket, Ac. in great variety, which for beauty and elegance of design are unequalled.  
The designs of Architects are dealt with the greatest exactness.

Also of  
PATENT GLAZED STONEWARE DRAIN PIPES, JUNCTIONS, ENDS, &c., well adapted for pressure, being made extra strong  
under "Specimen's Patent." Superior White Glazed CLOSET PANS, TRAPS, &c.

The Works of the Company are situated in the immediate vicinity of the well-known bed of **WORTLEY FIRE-CLAY**, and the manufacture of **BRICKS** for the use of Furnaces, Gas Chambers, Foundries, Potteries and Glassworks, is constantly recommended in all purposes where extreme heat is required. Their **GROUND CLAY** is also particularly adapted for the manufacture of **CRUCIBLE MELTING POTS**, &c.

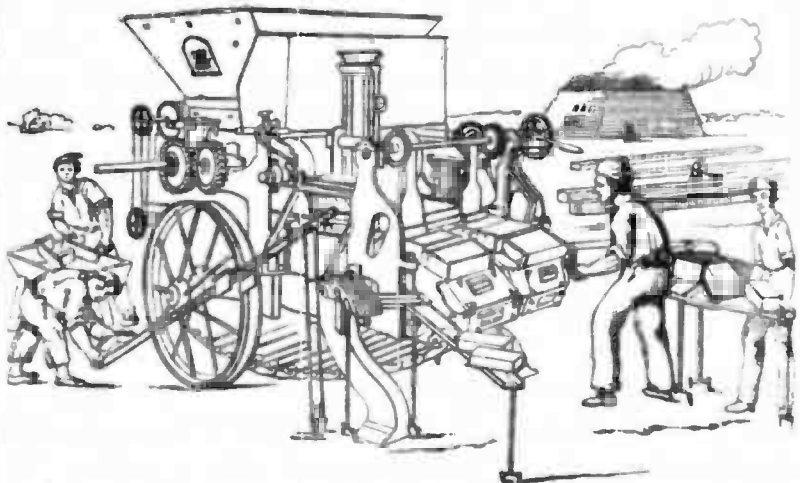
**OFFICERS AND STORES:**

LONDON No. 14, York-street, George-street, Adelphi; No. 15, Rathbone-place, New-road, St. Ann's-wharf, Limehouse.

BRADFORD ..... Hanging-loom, Manchester-road.  
LEEDS ..... Wellington-street, adjoining the Midland Canal.

Where Drawings, with Prices, &c., may be obtained.

## HART'S PATENT PORTABLE BRICK MACHINE.

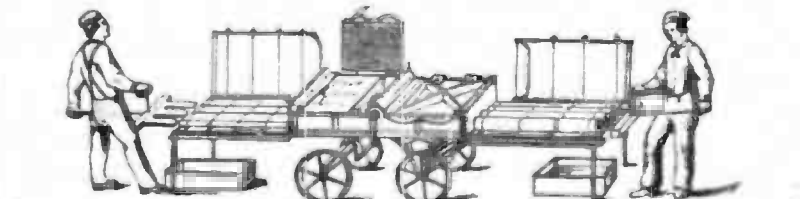


This machine, after many improvements in its details, is now confidently submitted to public notice as the most efficient and economical known means of manufacturing solid bricks of a uniformly superior quality. Its advantages over every other machine for attaining the same end have been so unequivocally admitted by all who have seen it in operation, that it will only be required to call attention to a few of its characteristic features to secure a very large share of public patronage.

The same machine grinds the clay and makes the bricks. The bricks are made by passing the clay through rollers which form it into sheets of uniform density, and superior in quality to hand-made bricks. 3rd. The moulds in which the bricks are formed and removed from the machine are made up; thus the bricks are laid on the pallets without injury to the shape from being handled. 4th. No additional machinery is required for drying or firing the bricks, and no extra cost is incurred. 5th. The machine being compact and portable is easily moved to any part of the brick field. 6th. The machine requires very little power as it is warranted to make 30,000 in ten hours, with a horse power, and will cost less than \$1,000 under the best. 7th. The saving resulting from the use of the machine can be shown to exceed 70% per annum.

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## HART'S PATENT DOUBLE-ACTION BRICK AND TILE MACHINE.



This machine consists of a worm and loathed wheel, acting on a powerful screw, with a piston at each end, each piston working the machine, which is capable of extruding 8 cent. of clay at each end.

The machine is entirely of iron and the construction is so simple, that with ordinary care it will last many years and **WILL BE GUARANTEED FOR THREE YEARS**. It is mounted on wheels so as to be readily taken to any part required. The dies are made for files and mouldings of any shape and size; for round or hollow blocks; for pipes of any shape and size up to 6 inches diameter, and with two receiving tables.

N.B.—The dies for Roberts's Patent Hollow Bricks, as exhibited in Prince Albert's Model Cottage in Hyde park, are made of steel, and supplied with this machine if required. It is capable of being worked by hand, or steam, as well as the Brick Machine, be driven by horse or steam power.

The price of the machine, complete, with two tables, two dies, and one screw, for hand-power	.....	20
Idem, ditto, to be worked by horse-power	.....	25
Ditto, ditto, steam-power	.....	30

J. M. invites attention to his extensive stock of machinery of every description for brick and tile making, and will furnish the same upon application. Steam-engines from four to fifty horse power kept in stock.

**ENGINEERING, BOILER MAKING, AND IRON FOUNDRY IN ALL ITS BRANCHES**  
**MANUFACTORY:—ATLAS IRON WORKS, BOROUGH-ROAD, LONDON.**